Scenario 1: GenerateMonthlyStatements

DECLARE

CURSOR transaction\_cursor IS

SELECT C.CustomerID, C.Name, T.TransactionID, T.TransactionDate, T.Amount, T.TransactionType

FROM Customers C

JOIN Accounts A ON C.CustomerID = A.CustomerID

JOIN Transactions T ON A.AccountID = T.AccountID

WHERE T.TransactionDate BETWEEN TRUNC(SYSDATE, 'MM') AND LAST\_DAY(SYSDATE);

v\_CustomerID Customers.CustomerID%TYPE;

v\_Name Customers.Name%TYPE;

v\_TransactionID Transactions.TransactionID%TYPE;

v\_TransactionDate Transactions.TransactionDate%TYPE;

v\_Amount Transactions.Amount%TYPE;

v\_TransactionType Transactions.TransactionType%TYPE;

BEGIN

OPEN transaction\_cursor;

LOOP

FETCH transaction\_cursor INTO v\_CustomerID, v\_Name, v\_TransactionID, v\_TransactionDate, v\_Amount, v\_TransactionType;

EXIT WHEN transaction\_cursor%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('Customer: ' || v\_Name || ' | Transaction ID: ' || v\_TransactionID ||

' | Date: ' || v\_TransactionDate || ' | Amount: ' || v\_Amount ||

' | Type: ' || v\_TransactionType);

END LOOP;

CLOSE transaction\_cursor;

END;

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Scenario 2: ApplyAnnualFee

DECLARE

CURSOR account\_cursor IS

SELECT AccountID, Balance

FROM Accounts;

v\_AccountID Accounts.AccountID%TYPE;

v\_Balance Accounts.Balance%TYPE;

v\_AnnualFee CONSTANT NUMBER := 100; -- Example annual fee amount

BEGIN

OPEN account\_cursor;

LOOP

FETCH account\_cursor INTO v\_AccountID, v\_Balance;

EXIT WHEN account\_cursor%NOTFOUND;

UPDATE Accounts

SET Balance = Balance - v\_AnnualFee, LastModified = SYSDATE

WHERE AccountID = v\_AccountID;

DBMS\_OUTPUT.PUT\_LINE('Annual fee applied to Account ID: ' || v\_AccountID);

END LOOP;

CLOSE account\_cursor;

COMMIT;

END;

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Scenario 3: UpdateLoanInterestRates

DECLARE

CURSOR cur\_Loans IS

SELECT LoanID, InterestRate

FROM Loans;

v\_LoanID Loans.LoanID%TYPE;

v\_InterestRate Loans.InterestRate%TYPE;

v\_NewInterestRate NUMBER;

BEGIN

OPEN cur\_Loans;

LOOP

FETCH cur\_Loans INTO v\_LoanID, v\_InterestRate;

EXIT WHEN cur\_Loans%NOTFOUND;

v\_NewInterestRate := v\_InterestRate \* 1.05;

UPDATE Loans

SET InterestRate = v\_NewInterestRate

WHERE LoanID = v\_LoanID;

DBMS\_OUTPUT.PUT\_LINE('Updated Loan ID: ' || v\_LoanID ||

' New Interest Rate: ' || v\_NewInterestRate);

END LOOP;

CLOSE cur\_Loans;

COMMIT;

END;

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